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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/693,897

10/28/2003

Su Tao

TAOS3011/EM

4029

23364

7590

08/11/2005

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EXAMINER

PRENTY, MARK V

ART UNIT

PAPER NUMBER

2822

DATE MAILED: 08/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/693,897	TAO, SU	
	Examiner	Art Unit	
	MARK PRENTY	2822	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 June 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-5 and 9-13 is/are allowed.
- 6) ☒ Claim(s) 6 and 14 is/are rejected.
- 7) ☒ Claim(s) 7 and 8 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

This Office Action is in response to the amendment filed on June 8, 2005.

Claim 6 is rejected under 35 U.S.C. 102(e) as being anticipated by Ohuchi et al. (newly cited United States Patent 6,566,747 to Ohuchi et al. – hereafter Ohuchi).

With respect to independent claim 6, Ohuchi discloses a semiconductor package (see the entire patent, including the Fig. 1 disclosure), comprising: a substrate unit 1 having an upper surface, a lower surface, a side surface connecting the upper surface and the lower surface, a plurality of circuit traces 22 formed on the upper surface, and a plurality of contacts formed on the side surface and electrically connecting to the circuit traces (note column 4, lines 40-44); and a chip 20 having an active surface and a back surface, and disposed on the upper surface of the substrate and electrically connected to the substrate.

Claim 6 is thus rejected under 35 U.S.C. 102(e) as being anticipated by Ohuchi.

Claim 14 is rejected under 35 U.S.C. 102(b) as being anticipated by Larson et al. (already of record United States Patent 3,311,791 – hereafter Larson).

With respect to independent claim 14, Larson discloses a substrate unit 14 adapted to a semiconductor package (see the entire patent, including the Fig. 2 disclosure), comprising: an upper surface; a lower surface opposed to the upper surface; a side surface connecting the upper surface and the lower surface; a plurality of circuit traces 12 formed on the upper surface; a plurality of recesses 15a formed on the side surface and electrically connected to the circuit traces; and a metal layer 15

formed on one of the recesses, wherein the metal layer comprises a copper layer, a nickel layer or¹ a gold layer (see column 2, lines 4-12).

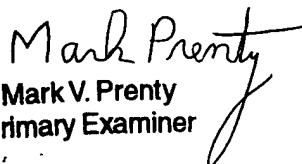
Claim 14 is thus rejected under 35 U.S.C. 102(b) as being anticipated by Larson.

Claims 7 and 8 are objected to as being dependent upon a rejected base claim, but would be allowable over the prior art of record if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1-5 and 9-13 are allowable over the prior art of record.

The applicant remarks: "Applicant wishes to direct the Examiner's attention to MPEP §2131 which states that to anticipate a claim, the reference must teach every element of the claim." However, the applicant does not actually dispute that Larson teaches every element of claim 14 as originally filed or as currently amended. In any event, the examiner respectfully directs the applicant's attention to the above rejection of amended claim 14 under 35 U.S.C. 102(b) as being anticipated by Larson, which explains how Larson teaches every element of amended claim 14.

Registered practitioners can telephone the examiner at (571) 272-1843. Any voicemail message left for the examiner must include the name and registration number of the registered practitioner calling, and the Application/Control (Serial) Number. Technology Center 2800's general telephone number is (571) 272-2800.


Mark V. Prenty
Primary Examiner

¹ Originally filed (and now canceled) dependent claim 15 recited: "The substrate unit of claim 14, wherein the metal layer comprises a copper layer, a nickel layer and a gold layer."